

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/000760**A. CLASSIFICATION OF SUBJECT MATTER**

IPC7 H01L 29/78

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	Hyun-Tak Kim et al. 2003 Online at http://xxx.lanl.gov/abs/cond-mat/0308042 (4. Aug. 2003.). see the whole document	1-8 1-8
Y	Hyun-Tak Kim et al. 2003 Online at http://xxx.lanl.gov/abs/cond-mat/0305632 (16. Sep. 2003.). see the whole document	1-8
P,X	Hyun-Tak Kim et al. New Journal of Physics, 6 (2004) 52 see the whole document	1-9
A	"Future Trends in Microelectronics: the Nano Millennium", pp.148-155 Ed by S. Luryi, J.M. Xu, A. Zaslavsky, Wiley Interscience, 2002 see the whole document	1-9
A	KP2003-0024156A(ETRI) 26 March 2003 see the whole document	1-9
A	US6,121,642A(International Business Machines Corporation)19 Sep. 2000 see the whole document	1-9

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

28 JULY 2004 (28.07.2004)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR2004/000760

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KP 2003-0024156 A	26.03.2003	JP2003101018 A2 US6624463 B2	04.04.2003 23.09.2003
US 6121642	19.09.2000	KP2000-0011528 A	25.02.2000